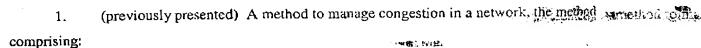
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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application; all

Listing of Claims:



determining a congestion status associated with a node in one of a single peer group and a sociated with a sociated with

broadcasting the congestion status to at least one other node in the one of the single pecr group and the hierarchical level in the network.

2. (original) The method of claim 1 wherein determining the congestion status comprises:

measuring a node condition at the node, the node condition corresponding to the congestion status.

3. (previously presented) The method of claim 1 wherein broadcasting the connection status comprises:

setting a transit flag, the transit flag being accessible to the at least one other node.

- 4. (original) The method of claim 1 wherein the node is one of a transit node and a terminating node.
- 5. (previously presented) The method of claim I wherein the node is a logical node in the hierarchical level, the logical node corresponding to a peer group at a next lower level.
- 6. (previously presented) The method of claim 1 wherein the at least one other node is one other logical node in the hierarchical level, the one other logical node corresponding to one other peer group at a next lower level.

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- 7. (previously presented) The method of claim I wherein the network is an asynchronous mode transfer (ATM) network.
- 8. (previously presented) The method of claim 3 wherein the node is one of a private network-to-network interface (PNNI) node.
 - 9. (original) The method of claim 8 wherein the transit flag is one of a PNNI topology state parameter:
 - 10. (previously presented) A method to manage congestion in a network, the method comprising:

receiving a congestion status associated with a node in one of a single peer group and a hierarchical level in the network, the congestion status corresponding to a measured node condition at the node and being broadcast by the node to at least one other node; and routing a call to the node based on the received congestion status.

- 11. (original) The method of claim 10 wherein receiving the congestion status comprises accessing a transit flag set by the node, the transit flag corresponding to the congestion status.
- 12. (previously presented) The method of claim 10 wherein the node is one of a transit node and a terminating node.
- 13. (previously presented) The method of claim 10 wherein the node is a logical node in the hierarchical level, the logical node corresponding to a peer group at a next lower level.
- 14. (previously presented) The method of claim 10 wherein routing the call to the node comprises:

routing the call to the node if the node is a terminating node; and routing the call to the node if the node is a transit node and the congestion status indicates that the node is not congested.

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- asynchronous mode transfer (ATM) network.
- private network-to-network interface (PNNI) node.
- 17. (original) The method of claim 16 wherein the transit flag is one of a PNN and topology state parameter.
- 18. (previously presented) A computer program product comprising:
 a computer usable medium having computer program code embodied therein for
 managing congestion in a network, the computer program product having:

computer readable program code for determining a congestion status associated with a node in one of a single peer group and a hierarchical level in the network-; and

computer readable program code for broadcasting the congestion status to at least one other node in the one of the single peer group and the hierarchical level in the network.

19. (original) The computer program product of claim 18 wherein the computer readable program code for determining the congestion status comprises:

computer readable program code for measuring a node condition at the node, the node condition corresponding to the congestion status.

20. (previously presented) The computer program product of claim 18 wherein the computer readable program code for broadcasting the connection status comprises:

computer readable program code for setting a transit flag, the transit flag being accessible to the at least one other node.

21. (original) The computer program product of claim 18 wherein the node is one of a transit node and a terminating node.

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- a next lower level.
- 23. (previously presented) The computer program product of claim 18 wherein the at least one other node is one other logical node in the hierarchical level, the one other logical node is corresponding to one other peer group at a next lower level.
- 24. (previously presented) The computer program product of claim 18 wherein the network is an asynchronous mode transfer (ATM) network.

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- 25. (previously presented) The computer program product of claim 20 wherein the node is one of a private network-to-network interface (PNNI) node.
- 26. (original) The computer program product of claim 25 wherein the transit flag is one of a PNNI topology state parameter.
- 27. (previously presented) A computer program product comprising:
 a computer usable medium having computer program code embodied therein for
 managing congestion in a network, the computer program product having:

computer readable program code for receiving a congestion status associated with a node in one of a single peer group and a hierarchical level in the network, the congestion status corresponding to a measured node condition at the node and being broadcast by the node to at least one other node; and

computer readable program code for routing a call to the node based on the received congestion status.

28. (original) The computer program product of claim 27 wherein the computer readable program code for receiving the congestion status comprises computer readable program code for accessing a transit flag set by the node, the transit flag corresponding to the congestion status.

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- (previously presented) The computer program product of claim 27 wherein the grant was a significant of the computer program product of claim 27 wherein the grant was a significant of the computer program product of claim 27 wherein the grant was a significant of the computer program product of the computer program product of the computer program of the computer program product of the computer product pr 29. ा वर्ष विकास anode is one of a transit node and a terminating hode. 😼 🚊 🕒 The second control of the second control of
 - (previously presented) The computer program product of claim 27/whorein the Managarante of the computer of the 30. node is a logical node in the hierarchical level, the logical node corresponding to a peer story with the logical node corresponding to a peer story with the logical node. 人教教·给水 为"主义、" · 斯·斯·斯·斯·斯·斯· amext levels **
 - 31. (previously presented) The computer program product of claim 27 wherein the computer readable program code for routing the call to the node comprises:

computer readable program code for routing the call to the node if the node is a terminating node; and

computer readable program code for routing the call to the node if the node is a transit node and the congestion status indicates that the node is not congested.

- (previously presented) The computer program product of claim 27 wherein the 32. network is an asynchronous mode transfer (ATM) network.
- 33. (previously presented) The computer program product of claim 28 wherein the node is one of a private network-to-network interface (PNNI) node.
- 34. (original) The computer program product of claim 33 wherein the transit flag is one of a PNNI topology state parameter.
 - 35. (previously presented) A system interfacing to a network comprising: a processor coupled to the network; and

a memory coupled to the processor, the memory containing program code for managing congestion in the network, the program code when executed causing the processor to:

determine a congestion status associated with a node in one of a single peer group and a hierarchical level in the network, and

broadcasting the congestion status to at least one other node in the one of the single peer group and the hierarchical level in the network.

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36. (original) The system of claim 35 wherein the program code causing the processor to determine the congestion status causes the processor to:

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- 38. (original) The system of claim 35 wherein the node is one of a transit node and a terminating node.
- 39. (previously presented) The system of claim 35 wherein the node is a logical node in the hierarchical level, the logical node corresponding to a peer group at a next lower level.
- 40. (previously presented) The system of claim 35 wherein the at least one other node is one other logical node in the hierarchical level, the one other logical node corresponding to one other peer group at a next lower level.
- 41. (original) The system of claim 40 wherein the network is an asynchronous mode transfer (ATM) network.
- 42. (original) The system of claim 41 wherein the node is one of a private network-to-network interface (PNNI) node.
- 43. (original) The system of claim 42 wherein the transit flag is one of a PNNI topology state parameter.
 - 44. (previously presented) A system interfacing to a network comprising: a processor coupled to the network; and

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a memory coupled to the processor, the memory containing program code for managing congestion in the network, the program code when executed causing the processor to:

receive a congestion status associated with a node in one of a single peer group and account the network, the congestion status corresponding to a measured node condition at the node and being broadcast by the node to at least one other node, and

route a call to the node based on the received congestion status.

- processor to receive the congestion status causes the processor to access a transit flag set by the node, the transit flag corresponding to the congestion status.
- 46. (previously presented) The system of claim 44 wherein the node is one of a transit node and a terminating node.
- 47. (previously presented) The system of claim 44 wherein the node is a logical **node** in the hierarchical level, the logical node corresponding to a peer group at a next lower level.
- 48. (previously presented) The system of claim 44 wherein the program code causing the processor to route the call to the node causes the processor to:

route the call to the node if the node is a terminating node; and route the call to the node if the node is a transit node and the congestion status indicates that the node is not congested.

- 49. (previously presented) The system of claim 44 wherein the network is an asynchronous mode transfer (ATM) network.
- 50. (previously presented) The system of claim 45 wherein the node is one of a private network-to-network interface (PNNI) node.
- 51. (original) The system of claim 50 wherein the transit flag is one of a PNNI topology state parameter.

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52. (previously presented): An apparatus to manage congestion in a network of source of the comprising:

means for determining a congestion status associated with a node in one of a single peeress.

group and a hierarchical levels in the network; and

means for broadcasting the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the one of the congestion status to at least one other node in the other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion status to at least one other node in the congestion sta

53. (previously presented) The apparatus of claim 52 wherein the means for exercise and the congestion status comprises:

means for measuring a node condition at the node, the node condition corresponding to the congestion status.

54. (previously presented) The apparatus of claim 52 wherein the means for broadcasting the connection status comprises:

means for setting a transit flag, the transit flag being accessible to the at least one other node.

- 55. (previously presented) The apparatus of claim 52 wherein the node is one of a transit node and a terminating node.
- 56. (previously presented) The apparatus of claim 52 wherein the node is a logical node in the hierarchical level, the logical node corresponding to a peer group at a next lower level.
- 57. (previously presented) The apparatus of claim 52 wherein the at least one other node is one other logical node in the hierarchical level, the one other logical node corresponding to one other peer group at a next lower level.
- 58. (previously presented) The apparatus of claim 52 wherein the network is an asynchronous mode transfer (ATM) network.

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- 5.59. (previously presented) The apparatus of claim 54 wherein the node is one of a service of the presented of the apparatus of claim 54 wherein the node is one of a service of the presented of the apparatus o private network-to-network interface (PNNI) node. . S. . . V. inschedienseld worden
- (previously presented). The apparatus of claim 59 wherein the transit flag is one and the second of the transport of a PNNI topology state parameter.
- (previously presented) An apparatus to manage congestion in a network comprising: **想到,我看着想好** *学业证证证据 6.5

means for receiving a congestion status associated with a node in one of a single peer group and a hierarchical level in the network, the congestion status corresponding to a measured node condition at the node and being broadcast by the node to at least one other node; and means for routing a call to the node based on the received congestion status.

62. (previously presented) The apparatus of claim 61 wherein the means for receiving the congestion status comprises:

means for accessing a transit flag set by the node, the transit flag corresponding to the congestion status.

- 63. (previously presented) The apparatus of claim 61 wherein the node is one of a transit node and a terminating node.
- 64. (previously presented) The apparatus of claim 61 wherein the node is a logical node in the hierarchical level, the logical node corresponding to a peer group at a next lower level.
- 65. (previously presented) The apparatus of claim 61 wherein the means for routing the call to the node comprises:

means for routing the call to the node if the node is a terminating node; and means for routing the call to the node if the node is a transit node and the congestion status indicates that the node is not congested.

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- 67. (previously presented) The apparatus of claim 62 wherein the node is one-of the presented of the apparatus of claim 62 wherein the node is one-of the presented of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of claim 62 wherein the node is one-of the apparatus of the apparatus
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